

sustainability.illinois.edu

Perspectives on the status and future prospects for sustainability in higher education

16 June 2010

Dick Warner
Director, Office of Sustainability
UIUC



sustainability.illinois.edu

Overview

 University of Illinois at Urbana-Champaign: Review of the Sustainability Initiative after ~18 months

Concluding remarks – patterns from Big Ten institutions



sustainability.illinois.edu

UIUC Challenges

- •UIUC efforts related to sustainability are highly distributed among units
- This is a very large Land Grant institution with an expansive scope and mission
- Inertia



sustainability.illinois.edu

Examples

College of Engineering initiative in Energy and Sustainability Engineering (EaSE) http://ease.illinois.edu/

School of Earth, Society, and Environment http://www.earth.illinois.edu/

NRES on line, etc. http://nres.illinois.edu/future online



sustainability.illinois.edu

Examples, continued

- Institute of Natural Resources Sustainability
- Illinois Sustainable Technology Center
- Agroecology and Sustainable Agriculture Program
- Environmental Change Institute
- Student Sustainability Committee
- Facilities & Services (e.g., energy, sustainability coordinator)



sustainability.illinois.edu

INSTITUTE OF NATURAL RESOURCE SUSTAINABILITY

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Illinois Natural History Survey | Illinois State Archaeological Survey | Illinois State Geological Survey | Illinois State Water Survey | Illinois Sustainable Technology Cente

INSTITUTE OF NATURAL RESOURCE SUSTAINABILITY

About | Libraries | Staff | Directions | Jobs | Shilts Image Gallery | Staff Search

William Shilts, Executive Director

Illinois Board of Natural Resource Sustainability | ESRI-GIS Development Center (EDC)



A Message from Executive Director Bill Shilts

Something Old, Something New

On July 1, 2008 a momentous merger of two venerable institutions took place, a merger that will impact both of their futures in significant ways. The State Scientific Surveys, internationally recognized institutions with roots back to the establishment of the first State Geological Survey in 1851, were transferred by the State Legislature to the administration of the University of Illinois, which was established in 1867. The Illinois Natural History Survey (INHS) has been located

on the campus of the University since 1885, ... More from Executive Director Shilts

From News Bureau Illinois, Shrinking Bylot Island glaciers tell story of climate change

A Minute with Geologist William Shilts

Dr. Shilts Recipient of the ISGS Special Recognition Award

Kulkarni Appointed Illinois Sustainable Technology Center Director

McKay Appointed New Illinois State Geological Survey Director

Events, Lectures, Seminars



Photos now posted

Earth, Wind, and Fire 5K Run and 2.5K Walk Results are now in

WCIA - Anne Dill: Turtles

WCIA - Rob Collins: Mud to Parks and Naturally Illinois Segments

WICD - Naturally Illinois Expo coming to campus



Illinois Natural History Survey

Since 1858, the INHS has been the quardian and recorder of the biological resources of Illinois - the State's

biological memory. With a staff of over 200 scientists and technicians, it is recognized as the premier natural history survey in the nation



Illinois State Archaeological Survey

Formed February 1, 2010 as a new Division in the Institute of Natural

Resource Sustainability, ISAS investigates, protects preserves and interprets the rich archaeological heritage of Illinois through ITARP, the ATAM program, education, and outreach to meet long-term public needs. Drawing on more than eighty years of research at the University of Illinois, ISAS documents and preserves cultural resources within the context of sustainable economic development. The ISAS has worked with other Divisions of INRS, in particular the Illinois State Geological Survey and the Illinois Natural History Survey, for more than twenty years on transportation and other development projects throughout Illinois.



Illinois State Geological Survey

The ISGS is a premier State Geological Survey serving the needs of Illinois with earth science information relevant to the

State's environmental quality, economic vitality, and public safety. Some 200 scientists and technical support staff conduct basic and applied research in geology, compile geologic maps, and gather and manage the state's geological data.



Illinois State Water Survey

The ISWS has flourished for more than a century by anticipating and responding to new challenges and opportunities to serve

the citizens of Illinois. Today, the ISWS continues to demonstrate flexibility and adaptability by developing new programs, while continuing to provide long-standing services upon which Illinoisans have come to rely.



Illinois Sustainable Technology



sustainability.illinois.edu

INSTITUTE OF NATURAL RESOURCE SUSTAINABILITY

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Illinois Natural History Survey I Illinois State Archaeological Survey I Illinois State Geological Survey I Illinois State Water Survey I Illinois Sustainable Technology Cente

ILLINOIS SUSTAINABLE TECHNOLOGY CENTER

About ISTC | Research | Publications | Library | Outreach | Initiatives | Technical Assistance

Biochar Biofuels IL River (Mud to Parks) GLRPPR PNEAC PPCPs in the Environment Sustainable Electronics Initiative Previous Initiatives

Kulkarni Appointed ISTC Director

Dr. Manohar R. Kulkarni, P.E., has been appointed director of the Illinois Sustainable Technology Center, a division of the Institute of Natural Resource Sustainability at the University of Illinois Urbana-Champaign effective May 1. Kulkarni has been chair and professor of mechanical engineering at the University of North Dakota since 2004.



Full Story

ISTC Initiatives

ISTC, in cooperation with the Office of the Governor, has honored organizations for their efforts in sustainability and pollution prevention since 1987. More Info





Initiative (SEI) is a consortium dedicated to the development and implementation of a more sustainable system for designing, producing, remanufacturing, and recycling electronic devices. ISTC's Tim Lindsey is directing the initiative.

Visit the SET website

ISTC News

New plastics scorecard favors bio-based

Take the eco challenge

NY Passes E-Waste Law, Manufacturers Get Ready To Pay

News Archive

Upcoming ISTC Events

6/17/10

Industrial Energy Efficiency, Part 1

6/24/10

Industrial Energy Efficiency, Part 2

Green Industrial Performance through Waste Minimization

View all upcoming events

Recent Publications

Green Libraries: Getting Started

Development of Refraction Index Sensors for in situ Monitoring of Machine Cutting

Inhibitory Effect of Decomposing Barley Straw on Algal Growth in Water and Wastewater

The Illinois River project / is looking at how to remove sediment from the Illinois River in a cost effective and safe

Illinois Sustainable Technology Center 1 Hazelwood Dr Champaign, IL 61820 217-333-8940

webmaster@istc illinois edu

© 2010 University of Illinois Board of Trustees. All rights reserved. For permissions information, contact the Illinois Sustainable Technology Center.



sustainability.illinois.edu



site map accessibility contact

search

log in join

home about help news events directory

you are here: home

topics

Organics

Local

Environment

₹ Education
✓ Help us grow

upcoming events

Feeding Universities
Sustainably

June 18, 2010

Biochar 2010
June 27, 2010

More events..

& Conferences...

news

Fish Are Jumping—Off Assembly Line

May 19, 2010

An Urban Farming
Pioneer Sows His Own
Legacy
May 19, 2010

110, 15, 201

More news...

log in

Login Name

Feature Stories

Feature: Help us get a handle on the CU Community Food System

Grants: OFRF Organic Seeds and Breeding and Rural Energy and SARE Research

Volunteer: Cover Sustainable Food and Farming Issues as an ASAP Volunteer

Classes not to miss: <u>Living on the Land</u>

New Organizations: Faith in Place

Tools: Page with tools

Events: 2010 Sustainable Agriculture Tours

Campus: Housing Services consider Sustainable Living Communities

Join Our Site and Add Your Own Content

Subscribe to our Official RSS









Older

Pilot Composting Project to Nourish Campus Farm at University of Illinoi:

vimeo

Newest Directory Item

Farm aid seeks farmer resource network mgr

More...

About

- Add your events, news, articles, research, and nearly any other kind of content!
- Interact with the site and others through comments and keywords
- Explore our topics to find out about <u>local</u> and <u>organic</u> agriculture, the <u>environment</u>, and education

What are you waiting for? Join and learn the basics

Site Topics:

explore sustainable agriculture

Organics

Organic certification, education, research, and activities

Local

Local food, agriculture, and community

***** Environment

Agriculture's influence on the environment

* Education

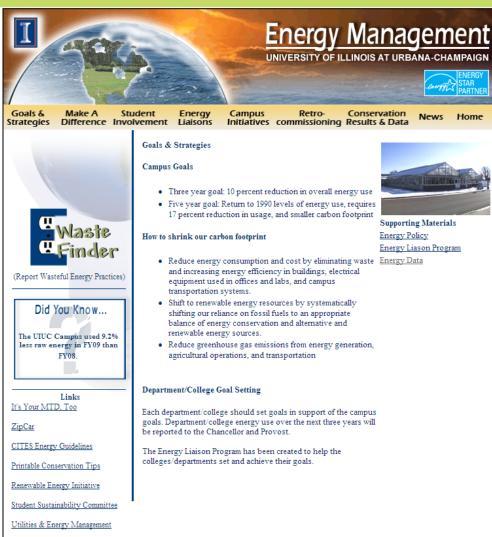
Classes, books, and other opportunities



Energy Information Admin.

(USDOE)

sustainability.illinois.edu





sustainability.illinois.edu

student sustainability committee university of illinois at urbana-champaign Home About Projects Loans Links Archives Contact





Student Sustainability Committee Members

2009-2010

Faculty/Staff

Tom Abram - Campus Sustainability Coordinator, Facilities and Services

James Anderson - Architecture

Jeffrey Courson - Outreach Coordinator, Office of Sustainability

Brian Deal - Urban and Regional Planning

Anton Endress - Natural Resources and Environmental Sciences

Wesley Jarrell - Environmental Change Institute Betsy Jo Liggett - Facilities and Services

Doris Reeser - Facilities and Services

Clifford Singer - Nuclear, Plasma and Radiological Engineering

Charlie Werth - Civil and Environmental Engineering

Students

Amy Allen - (Civil and Environmental Engineering)

Suhail Barot - (Urban and Regional Planning) - Chair

Corrin Behm - (Natural Resources and Environmental Sciences)

David Fan-Chung Hsu - (Electrical and Computer Engineering)

Erin Harper - (Environmental Biology) - Vice-Chair

Stephanie Zec - (Integrative Biology)

William Kelleher - (Electrical Engineering)

Peter Maraccini - (Mechanical Science and Engineering)

Lisa Mazzocco - (Materials Science and Engineering)

Nathan Stout - (Landscape Architecture)

About

The Student Sustainability Committee's purpose is to: (a) explore the options for the use of the student fees for sustainability and alternative energy generation, (b) evaluate the feasibility of projects being discussed with the professional assistance of engineers in the Division of Facilities and Services. The committee will review and recommend projects to be funded from two student fees, the \$5.00 Sustainable Campus Environment fee and the \$2.00 Cleaner Energy Technologies

In Spring 2007, a \$5.00 per semester refundable student fee for a Sustainable Campus Environment was approved by referendum of the student body by the Board of Trustees. Published materials indicated that this fee will finance initiatives; including sustainable campus development, green buildings, energy efficiency, sustainable resource purchasing, and education and campus engagement in order to create a more sustainable campus environment. This fee will help the University of Illinois align its operations and academics with the principles of sustainability. Sustainability encompasses economic. environmental, and social practices that meet the needs of current generations without jeopardizing the ability of future generations to meet theirs.

In Spring 2003, a \$2.00 per semester non-refundable student fee for Cleaner Energy Technologies was approved by a student referendum. The intent of the fee is to "provide pollution-free renewable energy as a portion of the campus energy portfolio and reduce campus energy consumption." The types of projects to be considered include wind power, solar energy, and other renewable souses such as hydrogen, biomass, and geothermal systems. A portion of the funds may be used for campus energy efficiency projects such as energy audits of campus building systems.

The projects approved by the committee undergo approval by the Office of Sustainability and Facilities and Services.

To become a member of the Student Sustainability Committee, visit the VCSA website for application information and application deadlines.



sustainability.illinois.edu



UNITS WITHIN THE SCHOOLS ATMOSPHERIC SCIENCES GEOGRAPHY GEOLOGY

School of Earth, Society, and Environment

ABOUT US PEOPLE FOR STUDENTS INTERNSHIPS RESEARCH NEWS RESOURCES

Study Sustainability

New challenges face the sustainability of Earth's environments and peoples in the 21st century. The School instructs and researches these complex systems

READ MORE



Announcements

- Study sustainability at the University of Illinois!
- The Environmental Policy Speaker Series begins Sept. 11
- Congratulations ESES 2009 Class



- Shortcut to the Major requirements
- Shortcut to the list of advanced classes for the major and minor

Sustainability Academics

Sustainability Major: Our future depends on understanding the interactions between the environment, society, and economy become expert with a degree in Earth Systems, Environment, and Society

Sustainability Minor: add a minor to any University major with the Environmental Fellows Program.

Sustainability courses: Interested in a course in sustainability? These courses are from all across the campus!

Master and Doctoral Programs:

Undertake advanced research in the Earth's physical and social processes: specialize in Atmospheric Sciences. Geography, or Geology

Research

The departments in the school do a wide range of cutting-edge research into the Earth's environment and societies» Learn more

Research Review 2010 abstracts now available here

News: School scientists chart arctic sea ice: the long-term trend is toward an ice-free summer » NY Times article

address: 249 Natural History Building, 1301 W. Green Street, Urbana, IL 61801 tel: 217-244-4064 • fax: 217-244-6323 • email: dyar@uiuc.edu

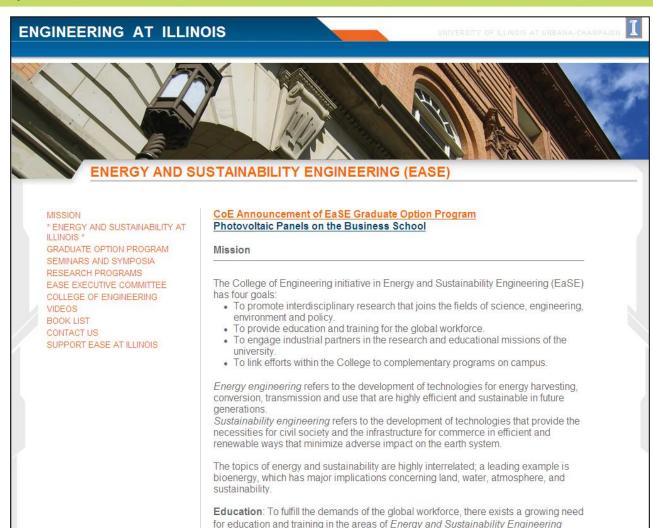


sustainability.illinois.edu





sustainability.illinois.edu



(EaSE). An effective preparation for the student is to acquire a rigorous background in a core engineering discipline, combined with an interdisciplinary understanding of the energy and sustainability challenges and a deeper understanding of a chosen sub-



sustainability.illinois.edu

Office of Sustainability

- Achieve responsibilities of the American College and University Presidents Climate Commitment including
 - Develop a comprehensive plan
 - Initiate action steps to reduce greenhouse gas emissions
- Coordinate enhancement of <u>campus infrastructure & policies</u>
- Facilitate <u>curricular enhancements</u>, including service learning opportunities in the community
- Encourage innovative <u>research collaborations</u>
- Foster <u>collaboration with external constituencies</u>, especially our local communities
- Provide forums to promote meaningful dialogue on challenges and opportunities



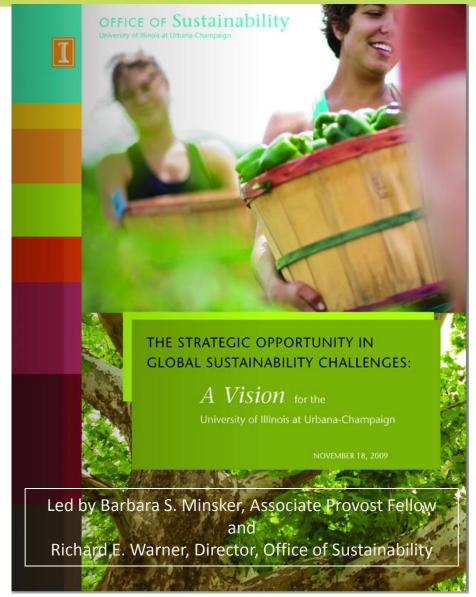
sustainability.illinois.edu

Illinois Sustainability Initiative

- 2007 Strategic Plan
- 2008 Chancellor Herman launched:
 - -Sustainability Council to provide strategic direction & oversight of the initiative
 - -Office of Sustainability to provide operational leadership for the initiative
- 2008-09: Sustainability vision created through participatory cross-campus process
- 2009-10: Launch implementation of the vision through adaptive cross-campus engagement



sustainability.illinois.edu





sustainability.illinois.edu

Objective of the Illinois Sustainability Vision

- Illinois will become a world leader in creating new knowledge and innovative solutions to the following grand challenges:
- 1. Maintaining or restoring critical ecosystem function while providing essential human services; and
- 2. Sustainably raising quality of life for the poor to acceptable levels.
- To do so, we will infuse sustainability programs across campus to foster a level of cross-disciplinary engagement comparable to a unit or center.



sustainability.illinois.edu

Goals of the Illinois Sustainability Vision

- Create a new forum for in-depth, cross-disciplinary engagement on the sustainability grand challenges.
- 2. Create and implement a sustainable campus operations plan that maintains or restores natural ecosystem function and supports impoverished communities.
- 3. Infuse sustainable thinking into campus missions through new education activities.
- 4. Create incentive programs that spur sustainability activities to meet the above goals.
- 5. Create a viable financial plan for sustainability activities.



sustainability.illinois.edu

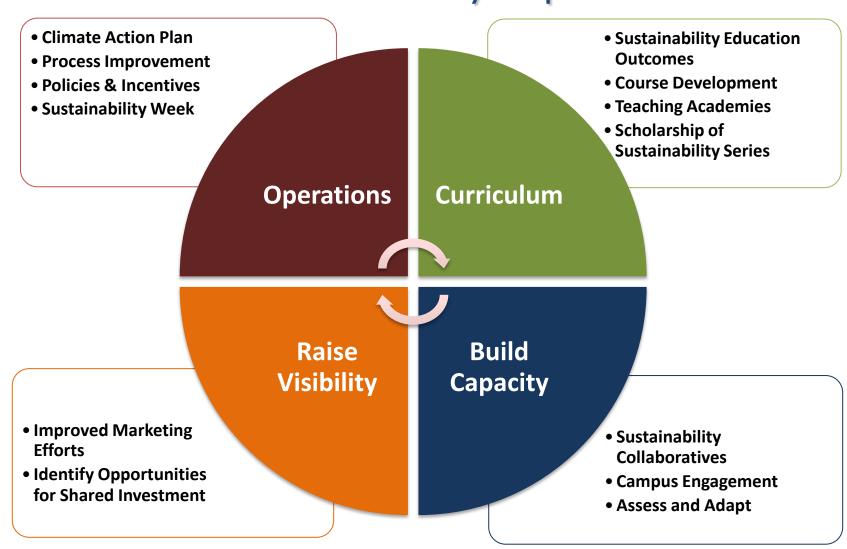
Status of the Sustainability Initiative

- Implementation process launched in August 2009
 - Three task forces formed (Goals 1-3)
 - Sustainability Forum (Robert McKim, Religion; Michelle Wander, Natural Resources and Environmental Sciences)
 - Sustainable Operations (Brian Deal, Urban and Regional Planning; Carl Wegel, Facilities & Services)
 - Sustainability Education (Madhu Viswanathan, Business Administration; Bill Stewart, Leisure Studies)
 - Campus-wide retreat held with ~100 participants
- 2010-11 Implementation Plan created and approved by Sustainability Council



sustainability.illinois.edu

2010-11 Illinois Sustainability Implementation Plan





sustainability.illinois.edu

Keynote Activities

- Scholarship of Sustainability Series (Spring 2010)
- Climate Action Plan
- Sustainability Collaboratives
- Prairie Project: Infusing Sustainability Across the Curriculum (May 2010)
- Sustainability Week (October 25-30, 2010)
- Engagement (e.g., CCNet, IGBA)



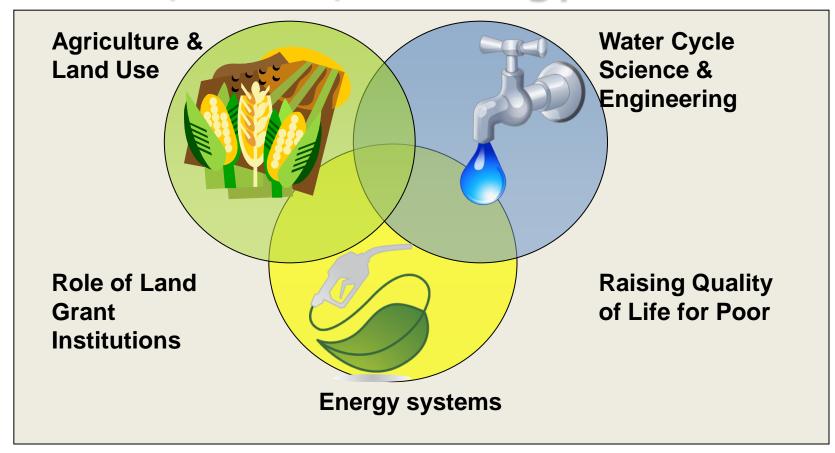
sustainability.illinois.edu

Food/Water/Energy Nexus (Collaboratives



sustainability.illinois.edu

Illinois Sustainability Theme: Food, Water, & Energy Nexus





sustainability.illinois.edu

Education & Service Learning

- John Street Watershed planning, *Sustainability in Social-Ecological Systems* (NRES 285CSS/LA 590GF) offered for Spring 2010. There are 30 students enrolled in the class from four departments (three colleges). Faculty members from four departments helping teach the class.
- The Human Place in Nature: Campus Series on the Scholarship of Sustainability, with courses offered in Spring 2010 in four departments as CHP 395/C, HDES 595, NRES 499, and LAW 792. Over a dozen faculty members participated in the course as well as dozens of students; open to the community as well.



sustainability.illinois.edu

The Prairie Project: A curriculum enhancement workshop

The Prairie Project is a curriculum enhancement workshop opportunity that aims to create an open and supportive environment for faculty and instructors from all disciplines to engage in mutual learning about sustainability, and brainstorming and experimenting with novel and interdisciplinary educational approaches. The project will use the local prairie environment, from the natural prairie to highly modified settings, to illustrate how a place-based perspective allows consideration of the interconnected social, environmental, and economic issues surrounding sustainability (initiated May 2010).



sustainability.illinois.edu

Engagement

- CCNet
- Illinois Green Business Association
- Community Colleges
- CASI-CERL



sustainability.illinois.edu





sustainability.illinois.edu

Illinois Green Business Association www.IllinoisGBA.com

The Illinois Green Business Association (IGBA) is a nonprofit organization that aims to assist businesses in reducing their ecological foot-print through their business operations and employee practices in nine areas of sustainability. We offer business owners personalized service that guides them towards sustainable goals by attaining our green certification. The IGBA staff will assess a business' current environmental performance, serve as a guide throughout all steps of our certification progress, as well as search for utilize applicable grants and incentive packages to assist businesses financially with green management practices (gmps). IGBA staff will promote and market a business' successful efforts to the community to build a culture of sustainability and promote responsible consumerism.



sustainability.illinois.edu



Illinois Green Business Association

FACT OF THE WEEK | Illinois is one of the top producers of ethanol in the Nation (eia.gov).

ABOUT

Staff Bios

Board Members

PARTNERS

Get Involved

CERTIFICATION

Areas of Certification

Pilot Program Phase

Participants

Certified Businesses

FAQ

HISTORY

Articles

RESOURCES

CONTACT US!

Congratulations to our first three certified businesses, the International Society of Arboriculture, B. Lime, and Ippatsu Salon in Champaign! Check out IGBA's recent Article in the News-Gazette and TV spot on Channel 15!

We are excited to certify the remaining ten businesses participating in the green business certification pilot program in Champaign, Urbana, and Savoy, as well as pilot a business course at Illinois State University (ISU) this summer where students will be working with our certification program!

IGBA is on Twitter and Facebook!

The Illinois Green Business Association is a registered Program Ally of AmerenIP's **Act On Energy® Efficiency Programs**.

Welcome

Many businesses are curious about how to improve their operations to become more sustainable. However, businesses do not have readily available resources to convert to greener practices or a local program that recognizes green businesses.

The Illinois Green Business Association is bringing a certification program to Champaign-Urbana to help create a sustainable business community.

What is a Green Business?

A green business is an environmental leader within the community that encourages environmentally efficient operations and sustainability within the workplace. They not only benefit economically from improving efficiency, but will have a marketing edge over other businesses.

The Illinois Green Business Association's certification program will promote, recognize, and provide hands-on support to local businesses that operate in an environmentally responsible manner. Green business certification is well worth its time-intensive process and is a great opportunity for businesses to examine their own operations and implement more efficient practices.

Our mission is to assist businesses in reducing their ecological foot-print by attaining our green certification. We will asses a business' current environmental performance and guide them towards certification. We will utilize applicable grants and incentive packages to aid businesses in the certification process. We will promote and market these successful efforts to the community to build a culture of sustainability and responsible consumerism.

Our vision is to create a model business assistance program that provides quality support and



sustainability.illinois.edu

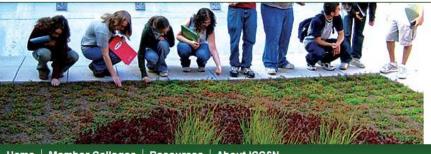
Illinois Green Business Association www.IllinoisGBA.com

The Illinois Green Business Association (IGBA) has extensively involved faculty and students regarding experiential learning and related opportunities. Since the spring semester of 2009, learning activities related to the IGBA have emerged in at least six colleges. Ten courses have directly involved 44 students in service learning activities, while also exposing 376 students in these classes to such green business issues. There has also been the direct involvement of 29 students in IGBA activities emerging from five student organizations, also exposing over one hundred students in these RSOs to green business opportunities. In addition, the IGBA has involved 12 other students either as interns or as part of their graduate research projects.

In total, 91 students have been directly involved with IGBA projects, with over 570 students having been exposed to the IGBA and business sustainability opportunities (not counting the exposure from various career fairs as well as IGBA being the focus of a June 2010 business course at the Illinois State University with 11 students).



sustainability.illinois.edu





Home | Member Colleges | Resources | About ICCSN

Member Log In

ICCSN Seeks Funding Under Economic Stimulus Package

Established in 2007, the Illinois Community College Sustainability Network (ICCSN) is a consortium of all 48 Illinois community colleges dedicated to providing the training and expertise to engage in the new energy economy.

Initial funding for the network has been provided by the Illinois Department Commerce of Economic Opportunity.

The ICCSN is seeking funds through the ARRA (American Recovery and Reinvestment Act) to build an Illinois green collar workforce. To establish how community colleges can build the green workforce, the ICCSN has created a proposal with two major goals:

- Rapidly accelerate training and development of the green collar workforce by expanding the Illinois Community College Sustainability Network.
- Immediately create green collar jobs through bid-ready, college energy projects that use renewable energy and conservation, reduce the energy costs of college facilities, train workers in green collar skills and serve as community demonstrations of green technology.

Read the proposal (PDF)

View a presentation on the AARA (PowerPoint)
Illinois Congressional delegation urges Governor Quinn to provide federal recovery funding for green-collar jobs programs at community colleges



Mission

The Illinois Community College Sustainability Network (ICCSN) is dedicated to

- rapidly address the new energy economy's needs for a green jobs workforce and for widespread deployment of energy efficiency and energy conservation to the main street community level;
- * strengthen Illinois community colleges' capacity to share resources state-wide that provide and promote energy education and sustainable practices;
- model renewable energy technology on community college campuses; and,
- establish Illinois as a national leader in training the green collar workforce for renewable energy technology and energy conservation.

Learn More and Get Involved

- Green for All
- Association for the Advancement of Sustainability in Higher Education (AASHE)
- ♣ Presidents Climate Commitment

More Resources ▶



sustainability.illinois.edu

Memorandum of Understanding with CERL

Curriculum

The Prairie Project

Long Term Recovery Council

Scholarship of Sustainability

Research

Memorandum of Understanding with CERL

Giving

CERL and the University of Illinois to Collaborate on Sustainability R&D

During a September 18
ceremony at the Construction
Engineering Research
Laboratory (CERL), Engineer
Research and Development
Center (ERDC) Director James
R. Houston signed a
Memorandum of Understanding
(MOU) with the University of
Illinois at Urbana-Champaign to
support joint research activities
in advancing sustainability
innovations.



The challenge of developing

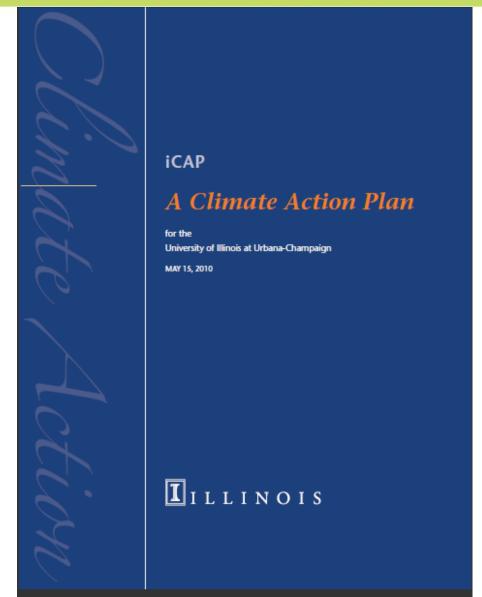
sustainable institutions, expertise, and practices attracts broad interest at both Illinois and ERDC. In 2006, ERDC established the Center for the Advancement of Sustainability Innovations (CASI), with the CASI director located at CERL. CASI supports the Army strategy for sustainability, which pursues sustainable practices in all Army operations. Illinois established its Office of Sustainability in December 2008 to provide leadership to its campus units, enhance communication and coordination across campus, and promote synergies with external constituents in implementing the UIUC strategic plan for sustainability.

Specific objectives of the MOU are to:

 Leverage the technical capabilities of Illinois and ERDC toward advancing sustainability innovations in matters of mutual interest.



sustainability.illinois.edu





sustainability.illinois.edu

	SUMN	4ARY	2
1	INTR	ODUCTION	9
•	1.1	BACKGROUND	9
	1.2	APPROACH	10
	1.3	PROCESS	10
2	CARE	ON EMISSIONS INVENTORY	11
	2.1	A PROJECTION OF CARBON EMISSIONS	13
3	COMMITMENTS		
	3.1	ENERGY CONSERVATION	14
	3.2	FINANCING	15
	3.3	COAL USE AT ABBOTT POWER PLANT	15
	3.4	RENEWABLE ENERGY	15
	3.5	TRANSPORTATION	15
	3.6	BUILDING STANDARDS	15
	3.7	CAMPUS LANDS AND SPACE	16
	3.8	PROCUREMENT AND WASTE	16
	3.9	WATER	16
	3.10	PLANNING	16
	3.11	FOLLOW THROUGH	16
	3.12	LONG-TERM COMMITMENTS	17
	3.12.1	LONG-TERM ENERGY	17
	3.12.2	OTHER LONGER-TERM COMMITMENTS	17
4	STRATEGIES FOR GHG REDUCTIONS		
4	4.1	ENERGY CONSERVATION	17
	4.1.1	NATIONAL PETASCALE COMPUTING FACILITY	23
	4.2	ENERGY GENERATION	24
	4.3	TRANSPORTATION	30
	4.4	AGRICULTURAL EMISSIONS	32
	4.5	WATER	34
	4.6	SPACE MANAGEMENT AND GROWTH	36
	4.7	PURCHASING / WASTE / RECYCLING	37
	4.8	SEQUESTRATION	39
	4.9	OTHER OFFSETS	40
5		ARIO RESULTS	40
	5.1	MITIGATION WEDGES	40
	5.2	FUNDING OPPORTUNITIES FOR MITIGATION	42
	5.3	FUTURE CLIMATE ACTION PLANNING	43



sustainability.illinois.edu

iCAP

- Foundation for next chapter
- Energy conservation imperative (investment)
 The UIUC Campus used 9.2% less raw energy in FY09 than FY08; another 9.5% reduction for first 7 months of this FY compared to same period last year.
- "Big Energy Idea"



sustainability.illinois.edu

Big Energy Idea (Initiative)

 Sparked by vision @ Corporate Partner Dialogue Day February 2010

Scale:

- 140 Megawatts, \$400-\$500 million
- Multiple renewable components
- Community-Corporate-Private-UIUC
- UIUC roles at a minimum: customer, R & D
- Public rollout summer 2011



sustainability.illinois.edu



Champaign" about needs that could be addressed by enhanced power systems.

Search

go



sustainability.illinois.edu

Center for Community Adaptation

In June of 2010 the Center for Community
Adaptation will be launched as a not-for-profit
business in Champaign, Illinois. The Center will
adopt place-based strategies to help
communities beneficially adapt to issues and
opportunities framed by environmental, social,
and economic sustainability.



sustainability.illinois.edu

Closing Remarks

- Complexities of sustainability in a Land Grant context with severe budget challenges
- Various approaches and complexities apparent in overview of sustainability efforts at Big Ten institutions
 - (http://sustainability.illinois.edu/reports.html)
- iCAP and ASHE
- A pause, review, and next steps at UIUC